RESPONSE UNDER 37 C.F.R. § 1.116
-- EXPEDITED PROCEDURE --
EXAMINING GROUP 2600

Our Docket No.: 42P15882

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	
Ylian Saint-Hilaire	Examiner: Hajnik, Daniel F.
Application No.: 10/618,203	Art Group: 2628
Filed: July 11, 2003	
For: Interface Remoting to Animate Image Data	OK TO ENTER: /D.H./

AMENDMENT AFTER FINAL

Mail Stop: AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Final Office Action mailed on August 6, 2008, which was made final, applicant submits this Amendment After Final Action for consideration.

CERTIFICATE OF EFS WEB TRANSMISSION

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/Shannon Serrano/ 10/6/08
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In the specification:

Please amend paragraph [0013] as follows:

[0013] Embodiments of the invention may be implemented in hardware, firmware, software, or any combination thereof. Embodiments of the invention may also be implemented as instructions stored on a machine-readable medium, which may be read and executed by one or more processors. A machine-readable medium may include any mechanism for storing or transmitting information in a form readable by a machine (e.g., a computing device). For example, a machine-readable medium may include read only memory (ROM); random access memory (RAM); magnetic disk storage media; optical storage media~~;~~ and flash memory devices~~; electrical, optical, acoustical or other forms of propagated signals (e.g., carrier waves, infrared signals, digital signals, etc.), and others~~. Further, firmware, software, routines, instructions may be described herein as performing certain actions. However, it should be appreciated that such descriptions are merely for convenience and that such actions in fact result from computing devices, processors, controllers, or other devices executing the firmware, software, routines, instructions, etc.

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown.

1. (Currently Amended) A method comprising:

receiving, via a network, a motion command, an index, a plurality of display coordinates and a time value at a first device from a second device, wherein the motion command, without including pixel values generated by the second device, directs animation of an image object stored in an image cache referenced by the index at the plurality of display coordinates over the received time period;

updating a frame buffer of the first device with the image object of the image cache over the time period to animate the image object per the motion command; and

presenting the animation of the image object on a display of the first device.

2. (Previously Presented) The method of claim 1 further comprising generating a video output signal representative of the frame buffer and the motion of the image object.

3. (Previously Presented) The method of claim 1 further comprising

receiving a background image from the second device,

storing the background image to a background buffer, and

updating the frame buffer with the background image prior to updating the frame buffer with the image object.

4. (Previously Presented) The method of claim 1 further comprising

receiving a background image from the second device,

decompressing the background image, and

storing the background image to a background buffer of the device in a decompressed form.

5. (Previously Presented) The method of claim 1 further comprising

receiving the image object from the second device, and

storing the image object in the image cache.

6. (Previously Presented) The method of claim 1 further comprising

receiving the image object from the second device,

decompressing the image object, and

storing the image object in the image cache in a decompressed form.

7. (Cancelled)

8. (Previously Presented) The method of claim 1 further comprising

updating the frame buffer to animate the image object moving along a curve defined by the plurality of coordinates over the time period.

9. (Cancelled)

10. (Previously Presented) The method of claim 1 wherein

the motion command indicates a first scale, and a second scale, and

updating the frame buffer with the image object comprises updating the frame buffer to animate the image object transitioning from the first scale to the second scale over the time period.

11. (Previously Presented) The method of claim 1 wherein

the motion command indicates a new scale, and

updating the frame buffer with the image object comprises updating the frame buffer to animate the image object transitioning from a current scale to the new scale over the time period.

12. (Previously Presented) The method of claim 1 wherein

the motion command indicates a first rotation, a second rotation, and

updating the frame buffer with the image object comprises updating the frame buffer such that the image object is rotated from the first rotation to the second rotation over the time period.

13. (Previously Presented) The method of claim 1 wherein

the motion command indicates a new rotation, and

updating the frame buffer with the image object comprises updating the frame buffer such that the image object is rotated from a current rotation to the new rotation over the time period.

14. (Previously Presented) The method of claim 1 further comprising receiving a capabilities command from the second device, and providing the second device with capabilities of the device.

15. (Previously Presented) The method of claim 1 further comprising receiving a cache management command from the second device, and updating the image cache per the cache management command.

16. (Previously Presented) The method of claim 1 further comprising providing the second device with an indication that the device has completed the motion command.

17. (Previously Presented) An apparatus comprising

at least one processor to execute instructions,

a network interface controller to transmit commands to a remote device, and

a memory comprising a plurality of instructions that in response to being executed by the at least one processor, result in the at least one processor,

loading the remote device with image objects, and

transmitting one or more motion commands, one or more indexes, a plurality of display coordinates and a time value via the network interface controller and a network to the remote device, wherein the one or more motion commands, without including pixel values generated by the apparatus, request the remote device to animate the one or more loaded image objects referenced by the

one or more indexes at the plurality of display coordinates over the received time period.

18. (Original) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating the one or more motion commands based upon one or more events generated by an application of the apparatus.

19. (Original) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating the one or more motion commands based upon one or more events received from the remote device via the network interface controller.

20. (Previously Presented) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating a motion command of the one or more commands that requests the remote device to animate a loaded image object by moving the loaded image object from a first location to a second location over the time period.

21. (Previously Presented) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating a motion command of the one or more commands that requests the remote device to animate a loaded image object by scaling the loaded image object from a first scale to a second scale over the time period.

22. (Previously Presented) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating a motion command of the one or more commands that requests the remote device to animate a loaded image object by rotating the loaded image object from a first orientation angle to a second orientation angle over the time period.

23. (Previously Presented) The apparatus of claim 17 wherein the plurality of instructions further result in the at least one processor generating a motion command of the one or more commands that requests the remote device to animate a loaded image object by moving the loaded image object along a curve defined by a plurality of locations over the time period.

24. (Previously Presented) An apparatus comprising

a network interface controller to receive commands, one or more indexes, a plurality of display coordinates and a time value and image objects from a remote device via a network,

an image cache to store image objects received via the network interface,

a frame buffer to store at least one frame to be displayed, and

at least one video processor to execute received commands and to update a frame buffer to animate image objects referenced by the indexes as requested by received commands at the plurality of display coordinates over the received time period, wherein

the remote device sends the commands without sending pixel values to be used to update the frame buffer.

25. (Original) The apparatus of claim 24 further comprising a display engine to generate a video output signal that is representative of a frame of the frame buffer.

26. (Previously Presented) The apparatus of claim 24 wherein the video processor in response to one of the received commands updates the frame buffer to animate an image object of the image cache moving from a first location to a second location over the time period.

27. (Previously Presented) The apparatus of claim 24 wherein the video processor in response to one of the received commands updates the frame buffer to animate an image object of the image cache scaling from a first scale to a second scale over the time period.

28. (Previously Presented) The apparatus of claim 24 wherein the video processor in response to one of the received commands updates the frame buffer to animate an image object of the image cache rotating from a first orientation angle to a second orientation angle over the time period.

29. (Previously Presented) The apparatus of claim 24 wherein the video processor in response to one of the received commands updates the frame buffer to

animate an image object of the image cache moving along a curve defined by a plurality of locations over the time period.

30. (Previously Presented) A tangible computer-readable storage medium having a plurality of instructions stored therein which, when executed by a processor of a computer, cause the processor to perform a process comprising:

determining to update a graphical user interface in response to one or more events, and

transmitting one or more motion commands, one or more indexes, a plurality of display coordinates and a time value to a remote device via a network, wherein the one or more motion commands, without including pixel values generated by the computer, request the remote device to update a displayed graphical user interface by animating one or more image objects of the remote device referenced by the one or more indexes at the plurality of display coordinates over the received time period.

31. (Previously Presented) The computer-readable storage medium of claim 30 wherein the process further comprises transmitting a motion command that requests the remote device to move an image object from a first location to a second location over the time period.

32. (Previously Presented) The computer-readable storage medium of claim 30 wherein the process further comprises transmitting a motion command that requests the

remote device to scale an image object from a first scale to a second scale over the time period.

33. (Previously Presented) The computer-readable storage medium of claim 30 wherein the process further comprises transmitting a motion command that requests the remote device to rotate an image object from a first orientation angle to a second orientation angle over the time period.

34. (Previously Presented) The computer-readable storage medium of claim 30 wherein the process further comprises transmitting a motion command that requests the remote device to move an image object along a curve defined by a plurality of locations over the time period.

Remarks

Applicant respectfully requests that this Amendment After Final Action be admitted under 37 C.F.R. § 1.116.

Applicant submits that this Amendment presents claims in better form for consideration on appeal. Furthermore, applicant believes that consideration of this Amendment could lead to favorable action that would remove one or more issues for appeal.

Claim 1 has been amended. No claims have been canceled. Therefore, claims 1-6, 8 and 10-34 are now presented for examination.

Claims 30-34 stand rejected under 35 U.S.C. §101 because the claimed invention is directed to non-statutory subject matter. The above-rejection has been obviated by the amendment made to the specification.

Claims 1-6, 10-11, 15-21, 24-27 and 30-32 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Lok et al., U.S. Publication No. 2003/0182469 in view of Merrill et al., U.S. Patent No. 6,369,821 ("Merrill"). Applicant submits that the present claims are patentable over Lok in view of Merrill.

Lok discloses that a component in a user interface toolkit may be configured to render a graphical item and the remote-capable component may be configured to generate a command to render a graphical item. Similarly, the server may be configured to communicate the message to the user interface toolkit on the remote client to render a graphical item in response to the invocation by the application. The component of the user interface toolkit on the remote client may be configured to render the graphical item in response to the message. See Lok at paragraph [0027].

Merrill discloses an animation system that provides synchronization services to synchronize actions of two more interactive user interface characters that are displayed simultaneously. The animation services allow applications to make animation requests to control the actions of characters on the display. These actions include playing one of the character's animation sequences and generating speech output with lip-synched animation of the character's mouth. Accessible via script commands or an Application Programming Interface, the synchronization services allow an application to control interaction between two or more characters on the display. Applications can synchronize actions by invoking straightforward commands such as Wait, Interrupt, or Stop. In response to these commands, the animation server synchronizes scheduled actions by halting playback of a character until a specified action of another character completes or halting a specified action of one character after scheduled actions for another character are completed. See Merrill at Abstract.

Claim 1 of the present application recites:

> A method comprising:
> receiving, via a network, a motion command, an index, a plurality of display coordinates and a time value at a first device from a second device, wherein the motion command, without including pixel values generated by the second device, directs animation of an image object stored in an image cache referenced by the index at the plurality of display coordinates over the received time period;
> updating a frame buffer of the first device with the image object of the image cache over the time period to animate the image object per the motion command; and
> presenting the animation of the image object on a display of the first device.

Applicant submits both Lok and Merrill fail to disclose or suggest receiving an index, display coordinates or a time value at a first device from a second device via network. Lok discloses client receiving a message to perform a function from at a client from a server. However, there is no disclosure or suggestion of the message including an index, display coordinates or a time value.

Instead, the Examiner maintains that Merrill discloses a process of receiving an index, display coordinates or a time value. See Final Office Action at Page 5, lines 1-7. Merrill discloses an animation file structure that includes a block of data for each frame, which includes frame type, frame position, duration, a unique ID and an offset. See Merrill at col. 8, ll. 51-55. However, there is no disclosure or suggestion in Merrill of such an animation file structure being transmitted from a first device to a second device. Therefore, Merrill does not disclose the claimed feature of *receiving an index, a plurality of display coordinates and a time value* ***at a first device from a second device via a network***.

Since Lok and Merrill each fail to disclose or suggest receiving an index, display coordinates or a time value at a first device from a second device via network, any combination of Lok and Merrill would fail to disclose or suggest such features. As a result, claim 1 and its dependent claims are patentable over Lok in view of Merrill.

Independent claims 17, 24 and 30 each include limitations similar to those recited in claim 1, and therefore are patentable over Lok in view of Merrill for reasons similar to those discussed above with respect to claim 1.

Claims 8, 12, 13, 22, 23, 28, 29, 33 and 34 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Lok in view of Merrill and further in view of Stern, U.S.

Patent No. 4,600,919 ("Stern"). Claim 14 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Lok in view of Merrill and further in view of Richardson, "The RFB Protocol".

Applicant submits that the present claims are patentable over any combination of Lok, Merrill, Stern and Richardson since none of the references, alone or in combination, disclose or suggest receiving an index, display coordinates or a time value at a first device from a second device via network.

Applicant submits that the rejections have been overcome, and that the claims are in condition for allowance. Accordingly, applicant respectfully requests the rejections be withdrawn and the claims be allowed.

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: October 6, 2008

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